

# PATENT SPECIFICATION

1,076,819

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Date of Application and filing Complete  
Specification: January 14, 1966.

No. 1807/66

(Patent of Addition to No. 1076498 dated September 11, 1965).

Complete Specification Published: July 26, 1967.

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Index at Acceptance:—F1 B (2M5C, 2M7); F2 P (1A3, 1A13, 1B7).

Int. Cl.:—F 02 f // F16l.

## COMPLETE SPECIFICATION

### DRAWINGS ATTACHED

#### Fuel Delivery Systems for Motor Vehicles

We, FORD MOTOR COMPANY LIMITED, of 86 Regent Street, London, W.1., a British Company, do hereby declare the invention for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following Statement:—

The invention relates to fuel delivery systems for motor vehicles. The invention is an improvement in or a modification of the fuel delivery system of Patent Specification No. 38902/65.

The first three claims of Patent Specification (Serial No. 1076498) No. 38902/65 are as follows:—

1. A fuel delivery system between the fuel tank and a carburettor float chamber of the internal combustion engine of a motor vehicle in which:

(a) a pump is arranged near the engine to draw fuel from the fuel tank and to supply the fuel to the float chamber;

(b) there is a return passage from between the pump and the float chamber to the fuel tank; and

(c) there is a fixed flow restriction in the return passage which limits the flow of fuel in the return passage and thus allows a sufficient fuel supply to the engine.

2. A fuel delivery system as claimed in claim 1 in which there is a "Y" connector at the inlet to the float chamber of the engine, and in which one branch pipe of the "Y" connector leads to the pump and the other branch pipe constitutes the beginning of the return passage.

3. A fuel delivery system claimed in claim 1 or 2, in which the flow restriction leaves a fuel passage of 1.3mm diameter through which fuel can flow.

According to the present invention, in a fuel delivery system as claimed in any of claims 1 to 3 of Patent Specification No.

38902/65, a composite fuel tube includes two passages, one of which constitutes the passage through which fuel is supplied from the fuel tanks to the pump and the other of which constitutes the return passage.

The invention is particularly described with reference to the accompanying drawing which is a perspective view of a section of fuel tube for use according to the invention.

A composite fuel tube has two circular passages 14 and 16 joined by a thin web 18. The composite tube is an extrusion of flexible synthetic plastics material. Nylon is a suitable material. The composite tube is used to replace the two separate tubes 14 and 16 of the drawing of Patent (Serial No. 1076498) Specification No. 38902/65. The thickness of the web 18 is of the order of .01 inches. This enables the two passages 14 and 16 to be separated near their ends so that at the rear they can be connected to different positions on the fuel tank and at the front one can be connected to the pump and the other to the line 15 between the pump and the float chamber.

#### WHAT WE CLAIM IS:—

1. A fuel delivery system as claimed in any of claims 1 to 3 of Patent Specification (Serial No. 1076498) No. 38902/65 and in which a composite fuel tube includes two passages one of which constitutes the passage through which fuel is supplied from the fuel tanks to the pump and the other of which constitutes the return passage.

2. A fuel delivery system as claimed in claim 1 in which the composite fuel tube is an extrusion of flexible synthetic plastics material.

3. A fuel delivery system as claimed in claim 1 or claim 2 in which the composite fuel tube is in the form of two circular tubes joined by a web.

4. A fuel delivery system substantially as described with reference to the accompanying drawing.

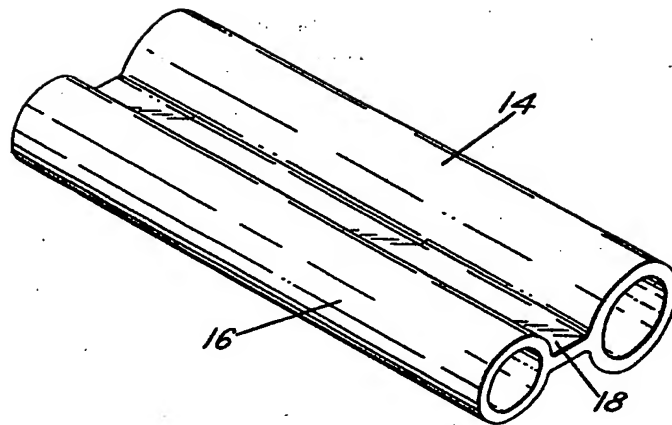
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Berwick-upon-Tweed: Printed for Her Majesty's Stationery Office by The Tweeddale Press Ltd.—1967  
Published at the Patent Office, 25 Southampton Buildings, London, W.C.2 from which copies may  
be obtained.

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1 SHEET

COMPLETE SPECIFICATION

*This drawing is a reproduction of  
the Original on a reduced scale.*



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